

# Morbidity and Mortality

Weekly Report

**PUBLIC HEALTH SERVICE**  
**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE**

Prepared by the **COMMUNICABLE DISEASE CENTER** MEloose 4-5131

For release February 3, 1961 Atlanta 22, Georgia Vol. 10, No. 4

## Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended January 28, 1961

**Influenza** - No reports of epidemic influenza or recent influenza virus isolations have been received during the current season from any part of the United States. During the past six weeks, influenza and pneumonia deaths in this country have remained slightly above normal levels, but no significant excess mortality has occurred.

and CDC has been notified this week of specific outbreaks in Clark County, Kentucky; Franklin County, Illinois; and Duchesne County, Utah.

### EPIDEMIOLOGICAL REPORTS

#### Hepatitis - Macy, Nebraska

Dr. Holman R. Wherritt, Medical Officer in Charge, Public Health Indian Hospital in Winnebago, Nebraska, has reported an outbreak of infectious hepatitis among Omaha Indians. A total of 29 cases have occurred since

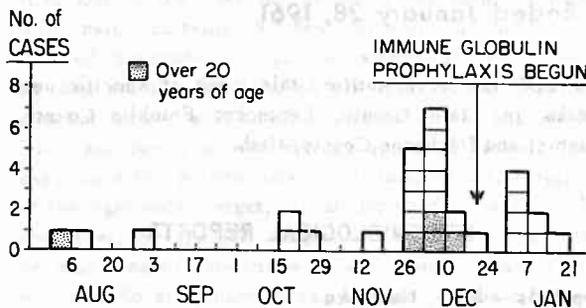
**Table 1. Cases of Specified Notifiable Diseases: United States**

(Cumulative totals include revised and delayed reports through previous week)

Disease (Seventh Revision of International Lists, 1955)	4th Week			Cumulative						Approximate seasonal low point
	Ended Jan. 28, 1961	Ended Jan. 30, 1960	Median 1956-60	First 4 weeks			Since seasonal low week			
				1961	1960	Median 1956-60	1960-61	1969-60	Median 1955-56 to 1959-60	
--- Weekly incidence low or sporadic										
--- Data not available										
--- Quantity zero										
Anthrax-----062	-	-	*	-	-	*	*	*	*	*
Botulism-----049.1	-	-	*	-	3	*	*	*	*	*
Brucellosis (undulant fever)-----044	7	14	10	30	58	47	*	*	*	*
Diphtheria-----055	22	24	22	94	91	94	674	621	834	July 1
Encephalitis, infectious-----082	22	32	27	85	107	83	85	107	83	Jan. 1
Hepatitis, infectious, and serum-----092, N998.5 pt.	1,856	711	544	6,154	2,837	1,925	21,329	10,833	6,704	Sept. 1
Malaria-----110-117	-	-	*	1	5	*	*	*	*	*
Measles-----085	9,403	8,825	9,432	32,511	31,562	30,927	68,558	69,114	69,114	Sept. 1
Meningitis, aseptic-----340 pt.	26	36	---	90	132	---	90	132	---	Jan. 1
Meningococcal infections-----057	52	51	53	211	214	230	865	869	1,040	Sept. 1
Poliomyelitis-----080	8	36	36	47	108	108	3,111	8,382	8,382	Apr. 1
Paralytic-----080.0, 080.1	5	23	23	27	78	78	2,136	5,579	5,579	Apr. 1
Nonparalytic-----080.2	2	10	10	8	17	17	629	2,134	2,134	Apr. 1
Unspecified-----080.3	1	3	3	12	13	13	346	669	669	Apr. 1
Pittacosis-----096.2	1	1	*	3	4	*	*	*	*	*
Rabies in man-----094	-	-	*	2	-	*	*	*	*	*
Streptococcal sore throat, including scarlet fever-----050, 051	9,699	9,346	---	34,405	32,759	---	132,057	---	---	Aug. 1
Typhoid fever-----040	11	9	13	30	31	50	716	757	1,062	Apr. 1
Typhus fever, endemic-----101	1	1	*	3	3	*	*	*	*	*
Rabies in animals-----	55	73	93	197	294	345	767	1,274	1,274	Oct. 1

August in and around Macy, a town of 732 population. Only 2 cases were reported among these Indians between 1957 and August 1960. All of the cases were jaundiced, and all were mild with the exception of two white women — a nurse who treated cases at the Indian hospital and a minister's wife who taught Sunday school; their courses necessitated longer convalescent periods. The figure below shows cases by week of onset:

### HEPATITIS, OMAHA INDIAN RESERVATION



Fifteen had onset in December and 7 in January. Two peaks separated by about 30 days are discernible in December and January. The ages of the cases showed a distinct pattern. Six were preschool age, 17 were 5-9 years old, 1 was in the 10-14 age group, and 5 were 20 or above. The paucity of cases over 10 years of age is noteworthy. Fourteen of the children attended a single elementary school. All were Indians with the exception of the two white women. A careful study of the cases points to the person-to-person route as the predominant means of spread. All household contacts of cases occurring after November 15 have been given immune serum globulin and subsequent cases have not occurred in these family members.

### Typhoid - Colorado

One week ago Colorado reported three typhoid cases; during the entire year 1961, a total of one case was reported. Dr. Cecil Molohan, Chief, Division of Epidemiology, Colorado State Department of Public Health, has informed us that the current cases were apparently unrelated. Two cases were adults — the first, a 33-year old man developed symptoms in mid-December. He had been traveling in South America and was hospitalized with compatible symptoms and elevated H and O agglutinin titers. No culture was taken before treatment with chloramphenicol was initiated. The second, a 29-year old man recently returned from Mexico, developed symptoms on January 10 and was found to have positive stools for *S. typhosa*. The third case, a three year old girl, had onset of symptoms on January 12 and stool cultures were

positive. A most interesting background to this case is being investigated. The girl's grandmother, who has a history of having typhoid fever at age 11, came to live in the home of the patient in November. Late in the same month the grandmother was hospitalized with gallstone ileus and in mid-January (before cultures could be taken) she had a cholecystectomy. The girl's mother was hospitalized December 27, 1960, with fever, chills, and diarrhea and a gram-negative bacillus was isolated from her blood. She was started on chloramphenicol prior to further cultures. It appears that the grandmother may have unknowingly affected both her daughter and granddaughter.

### Poliomyelitis - Puerto Rico

A preliminary total of 497 paralytic poliomyelitis cases occurred in Puerto Rico during 1960. Of these, 433 or 89 percent had spinal paralysis with the remaining 11 percent having bulbar or bulbo-spinal involvement. The epidemic began late in January and reached a peak during the week ending June 11. The first case resided in the Ponce area and later cases occurred throughout the island with 68 of 76 municipalities having at least one case. The cases are shown in the following table by age and vaccination status.

### Paralytic Poliomyelitis by Age and Vaccination Status Puerto Rico, 1960 - Preliminary Data

Age	Vaccination Status						Total	%*
	0	1	2	3	4+	Unk		
<1	85	7	5	2	0	2	101	20.3
1	110	4	3	3	0	1	121	24.3
2	71	2	4	2	1	2	82	16.5
3	56	10	4	5	0	2	77	15.5
4	39	1	3	4	0	0	47	9.5
5-9	38	4	4	11	0	1	58	11.6
10-14	3	0	1	0	0	0	4	0.8
15+	4	0	1	1	0	1	7	1.4
Total	406	28	25	28	1	9	497	100.0
%*	83.2	5.7	5.1	5.7	0.2		100.0	

\* Specified cases

It is evident that the epidemic involved predominantly unvaccinated preschool children; 86 percent of the cases were under 5 years of age. Only 6 percent of the cases received three or more doses of vaccine while 83 percent had not had one dose.

(Submitted by Dr. Manuel Feliberti, Epidemiologist, Puerto Rico Department of Health)

(Continued on page 8)

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JANUARY 30, 1960 AND JANUARY 28, 1961

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Poliomyelitis 080										Menin- gitis, aseptic 340 pt.	Brucel- losis (undul- tant fever) 044
	Total (Includes cases not specified by type)				Paralytic 080.0,080.1				Nonparalytic			
	4th Week		Cumulative, first 4 weeks		4th Week		Cumulative, first 4 weeks		080.2			
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960		
UNITED STATES-----	8	36	47	108	5	23	27	78	2	10	26	7
NEW ENGLAND-----	-	-	-	5	-	-	-	5	-	-	1	-
Maine-----	-	-	-	1	-	-	-	1	-	-	1	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	-	-	-	4	-	-	-	4	-	-	-	-
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC-----	1	4	5	18	-	3	4	12	1	-	2	-
New York-----	1	4	1	17	-	3	-	11	1	-	1	-
New Jersey-----	-	-	-	1	-	-	-	1	-	-	-	-
Pennsylvania-----	-	-	-	-	-	-	4	-	-	-	1	-
EAST NORTH CENTRAL-----	1	2	8	11	1	-	6	2	-	-	3	1
Ohio-----	1	2	4	10	1	-	3	2	-	-	1	-
Indiana-----	-	-	-	-	-	-	-	-	-	-	-	-
Illinois-----	-	-	2	-	-	-	-	2	-	-	2	-
Michigan-----	-	-	-	-	-	-	-	-	-	-	-	-
Wisconsin-----	-	-	2	1	-	-	1	-	-	-	-	1
WEST NORTH CENTRAL-----	-	2	2	3	-	2	1	3	-	-	-	6
Minnesota-----	-	2	1	3	-	2	1	3	-	-	-	-
Iowa-----	-	-	-	-	-	-	-	-	-	-	-	6
Missouri-----	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota-----	-	-	1	-	-	-	-	-	-	-	-	-
Nebraska-----	-	-	-	-	-	-	-	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC-----	1	14	4	29	1	8	3	23	-	6	1	-
Delaware-----	-	-	1	-	-	-	1	-	-	-	-	-
Maryland-----	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia-----	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	2	-	-	-	2	-	-	1	-
West Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina-----	-	1	1	11	-	1	1	11	-	-	-	-
South Carolina-----	-	-	-	1	-	-	-	1	-	-	-	-
Georgia-----	-	1	-	1	-	1	-	1	-	-	-	-
Florida-----	1	12	2	14	1	6	1	8	-	6	-	-
EAST SOUTH CENTRAL-----	-	1	5	2	-	-	-	1	-	1	3	-
Kentucky-----	-	1	5	2	-	-	-	1	-	1	-	-
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-
Alabama-----	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi-----	-	-	-	-	-	-	-	-	-	-	3	-
WEST SOUTH CENTRAL-----	-	4	5	5	-	3	2	4	-	1	2	-
Arkansas-----	-	-	2	-	-	-	-	-	-	-	-	-
Louisiana-----	-	1	3	2	-	1	2	2	-	-	-	-
Oklahoma-----	-	-	-	-	-	-	-	-	-	-	-	-
Texas-----	-	3	-	3	-	2	-	2	-	1	2	-
MOUNTAIN-----	3	-	10	4	2	-	5	3	-	-	5	-
Montana-----	-	-	1	4	-	-	1	3	-	-	1	-
Idaho-----	1	-	2	-	-	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	1	-	1	-	1	-	1	-	-	-	3	-
New Mexico-----	-	-	-	-	-	-	-	-	-	-	1	-
Arizona-----	1	-	2	-	1	-	1	-	-	-	-	-
Utah-----	-	-	4	-	-	-	2	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC-----	2	9	8	31	1	7	6	25	1	2	9	-
Washington-----	-	-	-	1	-	-	-	1	-	-	-	-
Oregon-----	-	1	-	7	-	-	-	3	-	1	1	-
California-----	2	8	8	22	1	7	6	20	1	1	8	-
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii-----	-	-	-	1	-	-	-	1	-	-	-	-
Puerto Rico-----	-	-	-	2	-	-	-	2	-	-	-	-

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JANUARY 30, 1960 AND JANUARY 28, 1961 - Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Diphtheria 055				Encephalitis, infectious		Hepatitis, infectious, and serum 092,N998.5 pt.				Measles	
	4th Week		Cumulative, first 4 weeks		082		4th Week		Cumulative, first 4 weeks		085	
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960
UNITED STATES-----	22	24	94	91	22	32	1,856	711	6,154	2,837	9,403	8,825
NEW ENGLAND-----	-	-	-	1	1	1	61	37	206	110	476	635
Maine-----	-	-	-	-	-	-	1	8	12	11	18	106
New Hampshire-----	-	-	-	-	-	-	2	-	6	-	15	2
Vermont-----	-	-	-	-	-	-	19	1	64	4	-	1
Massachusetts-----	-	-	-	-	1	1	21	21	59	63	241	368
Rhode Island-----	-	-	-	1	-	-	5	2	15	16	140	4
Connecticut-----	-	-	-	-	-	-	13	5	50	16	62	154
MIDDLE ATLANTIC-----	1	1	2	4	5	3	270	76	795	261	2,365	1,040
New York-----	-	-	1	1	3	1	151	33	365	117	1,394*	868
New Jersey-----	-	-	-	-	-	-	31	4	106	17	209	112
Pennsylvania-----	1	1	1	3	2	2	88	39	324	127	762	60
EAST NORTH CENTRAL-----	-	6	-	10	1	2	348	118	1,169	468	2,628	2,234
Ohio-----	-	5	-	7	-	-	142	19	514	103	596	308
Indiana-----	-	-	-	1	-	-	42	12	123	58	149	219
Illinois-----	-	1	-	1	-	1	55	40	172	119	425	653
Michigan-----	-	-	-	1	1	1	99	36	335	147	346	612
Wisconsin-----	-	-	-	-	-	-	10	11	25	41	1,112	442
WEST NORTH CENTRAL-----	1	3	5	8	1	2	156	70	574	243	344	236
Minnesota-----	-	-	2	2	-	-	37	14	114	30	2	112
Iowa-----	1	-	1	1	-	-	22	12	94	53	84	46
Missouri-----	-	1	-	1	-	-	38	27	162	71	138	4
North Dakota-----	-	-	-	1	1	-	6	8	16	31	91	72
South Dakota-----	-	2	2	2	-	-	17	4	37	22	-	1
Nebraska-----	-	-	-	-	-	1	16	2	54	17	29	1
Kansas-----	-	-	-	1	-	1	20	3	97	19	NN	NN
SOUTH ATLANTIC-----	1	3	9	24	2	7	202	59	696	295	1,082	483
Delaware-----	-	-	-	-	-	-	3	4	21	13	76	8
Maryland-----	-	-	-	-	-	-	14	6	80	34	40	79
District of Columbia-----	-	-	-	-	-	-	3	2	7	2	2	58
Virginia-----	-	1	2	5	-	1	34	10	91	76	315	155
West Virginia-----	-	1	1	1	-	-	33	12	147	75	127	46
North Carolina-----	1	-	1	1	-	5	55	5	139	15	351	69
South Carolina-----	-	-	-	10	-	-	14	2	93	6	56	4
Georgia-----	-	-	2	1	-	-	27	7	52	22	3	-
Florida-----	-	1	3	6	2	1	19	11	66	52	112	64
EAST SOUTH CENTRAL-----	1	-	3	8	2	8	368	159	1,161	583	608	918
Kentucky-----	1	-	2	-	-	5	121	72	422	272	354	378
Tennessee-----	-	-	1	1	2	-	170	47	500	186	207	500
Alabama-----	-	-	-	6	-	2	49	30	181	98	45	32
Mississippi-----	-	-	-	1	-	1	28	10	58	27	2	8
WEST SOUTH CENTRAL-----	16	8	72	20	2	1	104	42	351	209	295	1,604
Arkansas-----	-	-	-	-	-	-	22	4	69	12	16	11
Louisiana-----	1	4	5	5	-	-	4	3	13	10	-	2
Oklahoma-----	-	1	2	3	-	-	10	5	37	30	1	51
Texas-----	15	3	65	12	2	1	68	30	232	157	278	1,540
MOUNTAIN-----	2	2	3	15	1	1	135	58	420	304	448	618
Montana-----	1	-	2	-	-	-	6	1	54	9	49	62
Idaho-----	-	2	-	11	-	-	8	18	35	45	166	240
Wyoming-----	-	-	-	3	-	-	-	-	5	2	12	5
Colorado-----	1	-	1	-	-	-	47	18	162	87	35	86
New Mexico-----	-	-	-	-	-	-	16	5	31	63	-	-
Arizona-----	-	-	-	-	-	-	10	7	41	59	141	54
Utah-----	-	-	-	1	1	1	46	8	78	33	44	171
Nevada-----	-	-	-	-	-	-	2	1	14	6	1	-
PACIFIC-----	-	1	-	1	7	7	212	92	782	364	1,157	1,057
Washington-----	-	-	-	-	-	-	18	9	76	33	184	367
Oregon-----	-	-	-	-	-	-	61	22	159	75	197	218
California-----	-	-	-	-	7	7	123	57	518	235	755	280
Alaska-----	-	1	-	1	-	-	9	2	18	14	16	6
Hawaii-----	-	-	-	-	-	-	1	2	11	7	5	186
Puerto Rico-----	-	-	-	11	-	-	4	2	10	42	32	38

\*Should have read 942 for week ending January 21.

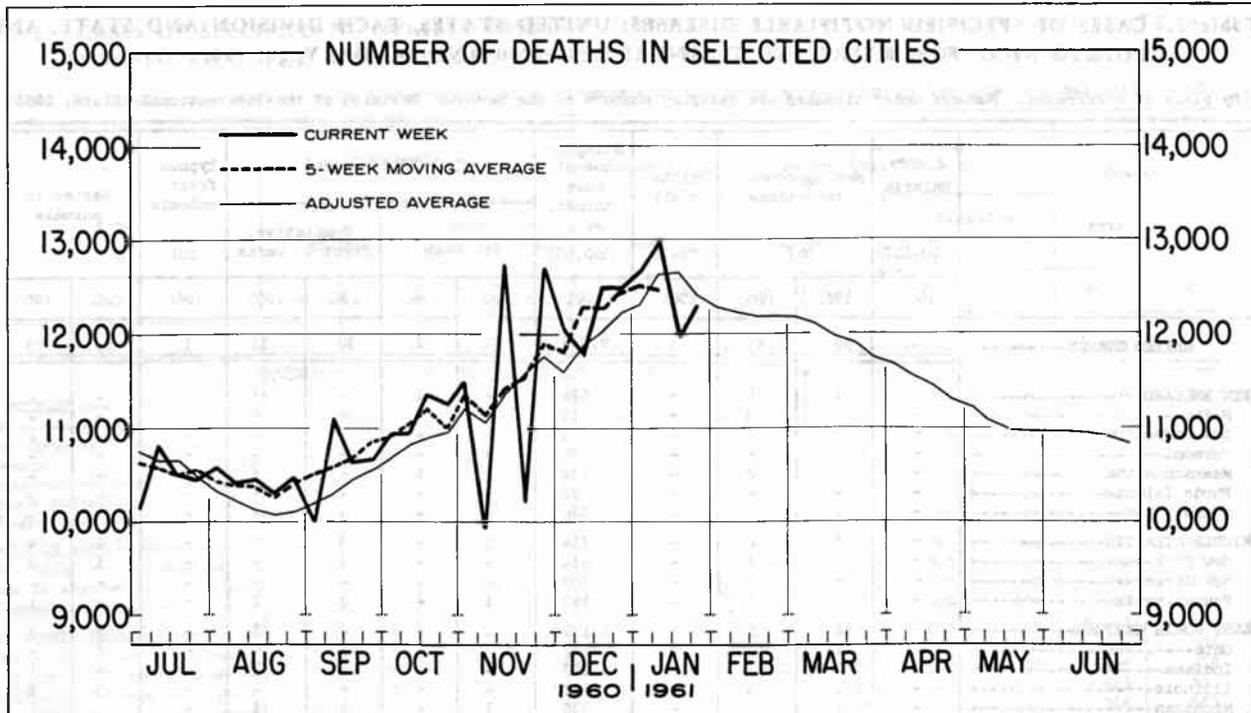
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(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Malaria	Meningococcal infections		Psittacosis	Streptococcal sore throat, etc.	Typhoid fever 040				Typhus fever, endemic	Rabies in animals	
	110-117	057		096.2	050,051	4th Week		Cumulative, first 4 weeks		101	1961	1960
	1961	1961	1960	1961	1961	1961	1960	1961	1960	1961	1961	1960
UNITED STATES-----	-	52	51	1	9,699	11	9	30	31	1	55	73
NEW ENGLAND-----	-	1	6	-	476	-	1	-	1	-	-	-
Maine-----	-	-	3	-	14	-	-	-	-	-	-	-
New Hampshire-----	-	-	-	-	5	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	30	-	-	-	-	-	-	-
Massachusetts-----	-	-	2	-	159	-	1	-	1	-	-	-
Rhode Island-----	-	-	-	-	22	-	-	-	-	-	-	-
Connecticut-----	-	1	1	-	246	-	-	-	-	-	-	-
MIDDLE ATLANTIC-----	-	7	6	-	714	1	-	3	2	-	1	4
New York-----	-	2	2	-	414	-	-	1	-	-	1	3
New Jersey-----	-	-	1	-	105	-	-	-	-	-	-	-
Pennsylvania-----	-	5	3	-	195	1	-	2	2	-	-	1
EAST NORTH CENTRAL-----	-	12	5	-	1,199	1	-	4	2	-	9	3
Ohio-----	-	1	2	-	352	-	-	2	-	-	2	-
Indiana-----	-	2	-	-	182	-	-	-	1	-	4	1
Illinois-----	-	1	3	-	143	-	-	-	-	-	3	1
Michigan-----	-	7	-	-	338	1	-	1	1	-	-	1
Wisconsin-----	-	1	-	-	184	-	-	1	-	-	-	-
WEST NORTH CENTRAL-----	-	5	-	-	357	-	3	2	5	-	8	16
Minnesota-----	-	-	-	-	13	-	-	-	-	-	1	5
Iowa-----	-	-	-	-	63	-	-	-	-	-	3	4
Missouri-----	-	2	-	-	24	-	3	2	5	-	2	5
North Dakota-----	-	-	-	-	103	-	-	-	-	-	2	1
South Dakota-----	-	1	-	-	1	-	-	-	-	-	-	-
Nebraska-----	-	-	-	-	-	-	-	-	-	-	-	1
Kansas-----	-	2	-	-	153	-	-	-	-	-	-	-
SOUTH ATLANTIC-----	-	9	8	-	636	2	2	5	4	1	12	12
Delaware-----	-	-	-	-	4	-	-	-	-	-	-	-
Maryland-----	-	-	1	-	21	-	-	-	-	-	-	-
District of Columbia-----	-	1	1	-	5	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	162	-	1	-	1	-	6	7
West Virginia-----	-	-	1	-	237	1	-	1	-	-	1	2
North Carolina-----	-	5	4	-	31	-	1	1	3	1	-	3
South Carolina-----	-	-	-	-	13	1	-	1	-	-	-	-
Georgia-----	-	-	1	-	10	-	-	1	-	-	-	-
Florida-----	-	3	-	-	153	-	-	1	-	-	5	-
EAST SOUTH CENTRAL-----	-	1	10	-	1,805	2	3	4	9	-	5	7
Kentucky-----	-	-	4	-	484	-	2	1	3	-	2	1
Tennessee-----	-	1	1	-	1,260	1	-	1	4	-	3	5
Alabama-----	-	-	2	-	32	1	1	2	2	-	-	-
Mississippi-----	-	-	3	-	29	-	-	-	-	-	-	1
WEST SOUTH CENTRAL-----	-	9	3	-	1,240	-	-	2	3	-	17	27
Arkansas-----	-	-	-	-	9	-	-	-	1	-	3	3
Louisiana-----	-	3	-	-	7	-	-	-	-	-	1	-
Oklahoma-----	-	-	-	-	15	-	-	1	-	-	-	-
Texas-----	-	6	3	-	1,209	-	-	1	2	-	13	24
MOUNTAIN-----	-	2	1	-	2,101	2	-	6	3	-	-	-
Montana-----	-	-	-	-	180	-	-	1	3	-	-	-
Idaho-----	-	1	1	-	148	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	81	-	-	-	-	-	-	-
Colorado-----	-	1	-	-	524	-	-	3	-	-	-	-
New Mexico-----	-	-	-	-	475	1	-	1	-	-	-	-
Arizona-----	-	-	-	-	217	-	-	-	-	-	-	-
Utah-----	-	-	-	-	463	1	-	1	-	-	-	-
Nevada-----	-	-	-	-	13	-	-	-	-	-	-	-
PACIFIC-----	-	6	12	1	1,171	3	-	4	2	-	3	4
Washington-----	-	1	1	-	586	1	-	1	-	-	-	-
Oregon-----	-	-	-	-	76	-	-	-	-	-	-	-
California-----	-	4	7	1	452	2	-	3	2	-	3	4
Alaska-----	-	1	4	-	51	-	-	-	-	-	-	-
Hawaii-----	-	-	-	-	6	-	-	-	-	-	-	-
Puerto Rico-----	-	-	-	-	-	-	2	-	5	-	-	2

## Morbidity and Mortality Weekly Report



The chart shows the number of deaths reported for 117 major cities of the United States by week for the current year, a 5-week moving average of these figures plotted at the central week, and an adjusted average for comparison. For each region the adjusted average was computed as follows: From the total deaths reported each week for the years 1956-1960, 3 central figures were selected by eliminating the highest and lowest figure reported for that week. A 5-week moving average of the arithmetic mean of the 3 central figures was then computed with adjustment to allow for population growth in each region. The average value of the regional increases was 2 percent which was incorporated in the adjusted average shown in the chart.

Table 4 shows the number of death certificates re-

ceived during the week indicated for deaths that occurred in selected cities. Figures compiled in this way, by week of receipt, usually approximate closely the number of deaths occurring during the week. However, differences are to be expected because of variations in the interval between death and receipt of the certificate and because of incomplete reporting due to holidays or vacations. If a report is not received from a city in time to be included in the total for the current week, an estimate is used.

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of the populations and because some cities are hospital centers serving the surrounding areas. Changes from year to year in the number of deaths may be due in part to population increases or decreases.

Table 3. DEATHS IN SELECTED CITIES BY GEOGRAPHIC DIVISIONS

(By place of occurrence and week of filing certificate. Excludes fetal deaths. Data exclude figures shown in parentheses in table 4)

Area	4th week ended Jan. 28, 1961	3rd week ended Jan. 21, 1961	Adjusted average, 4th week 1956-60	Percent change, adjusted average to current week	Cumulative, first 4 weeks		
					1961	1960	Percent change
TOTAL, 117 REPORTING CITIES-----	12,304	12,009	12,403	-0.8	49,933	52,870	-5.6
New England----- (14 cities)	806	717	743	+8.5	3,083	3,269	-5.7
Middle Atlantic----- (20 cities)	3,403	3,400	3,392	+0.3	14,025	14,203	-1.3
East North Central----- (21 cities)	2,532	2,556	2,653	-4.6	10,487	11,819	-11.3
West North Central----- (9 cities)	784	755	881	-11.0	3,267	3,527	-7.4
South Atlantic----- (11 cities)	1,126	1,058	1,071	+5.1	4,543	4,442	+2.3
East South Central----- (8 cities)	575	480	571	+0.7	2,314	2,396	-3.4
West South Central----- (13 cities)	1,180	1,039	1,134	+4.1	4,393	4,664	-5.8
Mountain----- (8 cities)	368	423	382	-3.7	1,510	1,552	-2.7
Pacific----- (13 cities)	1,530	1,581	1,576	-2.9	6,311	6,998	-9.8

# Morbidity and Mortality Weekly Report

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**Table 4. DEATHS IN SELECTED CITIES**

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	4th week ended Jan. 28, 1961	3rd week ended Jan. 21, 1961	Cumulative, first 4 weeks		Area	4th week ended Jan. 28, 1961	3rd week ended Jan. 21, 1961	Cumulative, first 4 weeks	
			1961	1960				1961	1960
<b>NEW ENGLAND:</b>					<b>WEST NORTH CENTRAL--Con.:</b>				
Boston, Mass.-----	284	256	1,077	1,078	St. Louis, Mo.-----	224	233	970	1,131
Bridgeport, Conn.-----	45	50	184	175	St. Paul, Minn.-----	68	46	269	327
Cambridge, Mass.-----	31	23	122	153	Wichita, Kans.-----	41	32	193	200
Fall River, Mass.-----	21	26	100	126	<b>SOUTH ATLANTIC:</b>				
Hartford, Conn.-----	61	55	203	200	Atlanta, Ga.-----	135	138	532	508
Lowell, Mass.-----	27	19	97	104	Baltimore, Md.-----	256	270	1,084	1,115
Lynn, Mass.-----	17	17	91	111	Charlotte, N.C.-----	30	41	155	171
New Bedford, Mass.-----	32	25	126	146	Jacksonville, Fla.-----	71	63	314	267
New Haven, Conn.-----	62	44	198	217	Miami, Fla.-----	91	53	306	348
Providence, R.I.-----	67	54	264	290	Norfolk, Va.-----	56	52	204	222
Somerville, Mass.-----	12	9	48	70	Richmond, Va.-----	87	83	384	351
Springfield, Mass.-----	49	59	214	229	Savannah, Ga.-----	37	36	168	168
Waterbury, Conn.-----	30	30	118	118	St. Petersburg, Fla.-----	(63)	(80)	(329)	(348)
Worcester, Mass.-----	68	50	241	252	Tampa, Fla.-----	84	70	328	271
<b>MIDDLE ATLANTIC:</b>					Washington, D.C.-----	223	208	881	821
Albany, N.Y.-----	54	38	226	175	Wilmington, Del.-----	56	44	187	194
Allentown, Pa.-----	37	33	148	138	<b>EAST SOUTH CENTRAL:</b>				
Buffalo, N.Y.-----	152	144	616	691	Birmingham, Ala.-----	75	84	397	384
Camden, N.J.-----	42	38	163	198	Chattanooga, Tenn.-----	68	32	227	227
Elizabeth, N.J.-----	33	31	119	96	Knoxville, Tenn.-----	21	30	124	138
Eric, Pa.-----	39	32	165	166	Louisville, Ky.-----	156	120	495	503
Jersey City, N.J.-----	60	80	316	354	Memphis, Tenn.-----	117	88	492	473
Newark, N.J.-----	113	92	440	463	Mobile, Ala.-----	51	29	181	198
New York City, N.Y.-----	1,829	1,666	7,107	6,938	Montgomery, Ala.-----	41	31	155	165
Faterson, N.J.-----	41	36	164	186	Nashville, Tenn.-----	46	66	243	308
Philadelphia, Pa.-----	523	595	2,181	2,145	<b>WEST SOUTH CENTRAL:</b>				
Pittsburgh, Pa.-----	135	222	828	1,044	Austin, Tex.-----	43	43	154	172
Reading, Pa.-----	27	27	96	112	Baton Rouge, La.-----	37	34	156	137
Rochester, N.Y.-----	107	116	460	518	Corpus Christi, Tex.-----	31	20	113	128
Schenectady, N.Y.-----	20	25	101	103	Dallas, Tex.-----	155	117	536	529
Scranton, Pa.-----	32	52	160	174	El Paso, Tex.-----	42	45	170	201
Syracuse, N.Y.-----	58	56	252	276	Fort Worth, Tex.-----	72	66	252	271
Trenton, N.J.-----	33	36	186	157	Houston, Tex.-----	179	206	779	763
Utica, N.Y.-----	33	33	145	131	Little Rock, Ark.-----	60	67	242	285
Yonkers, N.Y.-----	35	48	152	138	New Orleans, La.-----	206	159	726	778
<b>EAST NORTH CENTRAL:</b>					Oklahoma City, Okla.-----	103	98	362	348
Akron, Ohio-----	74	61	256	230	San Antonio, Tex.-----	118	122	447	560
Canton, Ohio-----	28	40	125	182	Shreveport, La.-----	81	22	222	213
Chicago, Ill.-----	740	776	3,139	3,762	Tulsa, Okla.-----	53	40	234	279
Cincinnati, Ohio-----	162	155	700	736	<b>MOUNTAIN:</b>				
Cleveland, Ohio-----	235	214	914	999	Albuquerque, N. Mex.-----	29	39	131	145
Columbus, Ohio-----	126	101	492	596	Colorado Springs, Colo.-----	15	12	72	77
Dayton, Ohio-----	75	85	358	320	Denver, Colo.-----	126	135	476	529
Detroit, Mich.-----	329	347	1,412	1,650	Ogden, Utah-----	16	17	59	69
Evansville, Ind.-----	49	32	141	157	Phoenix, Ariz.-----	77	93	352	328
Flint, Mich.-----	35	44	176	174	Pueblo, Colo.-----	17	16	61	55
Fort Wayne, Ind.-----	40	42	172	173	Salt Lake City, Utah-----	48	62	196	228
Gary, Ind.-----	39	35	131	136	Tucson, Ariz.-----	40	49	163	121
Grand Rapids, Mich.-----	51	46	186	195	<b>PACIFIC:</b>				
Indianapolis, Ind.-----	150	140	619	611	Berkeley, Calif.-----	15	22	71	82
Madison, Wis.-----	25	39	124	148	Fresno, Calif.-----	(48)	(38)	(171)	(230)
Milwaukee, Wis.-----	119	114	527	600	Glendale, Calif.-----	(33)	(37)	(146)	(215)
Peoria, Ill.-----	32	25	127	120	Honolulu, Hawaii-----	45	49	186	172
Rockford, Ill.-----	34	33	112	133	Long Beach, Calif.-----	67	75	264	263
South Bend, Ind.-----	29	37	122	143	Los Angeles, Calif.-----	510	640	2,306	2,705
Toledo, Ohio-----	111	117	423	511	Oakland, Calif.-----	124	97	455	451
Youngstown, Ohio-----	49	73	231	243	Pasadena, Calif.-----	30	29	121	188
<b>WEST NORTH CENTRAL:</b>					Portland, Oreg.-----	113	63	414	452
Des Moines, Iowa-----	60	54	203	220	Sacramento, Calif.-----	50	65	267	301
Duluth, Minn.-----	25	30	117	123	San Diego, Calif.-----	113	86	374	493
Kansas City, Kans.-----	41	37	170	163	San Francisco, Calif.-----	230	240	923	935
Kansas City, Mo.-----	106	134	553	516	San Jose, Calif.-----	(23)	(37)	(135)	(126)
Lincoln, Nebr.-----	(25)	(21)	(134)	(119)	Seattle, Wash.-----	148	133	561	574
Minneapolis, Minn.-----	137	130	518	528	Spokane, Wash.-----	41	39	187	193
Omaha, Nebr.-----	82	59	274	319	Tacoma, Wash.-----	44	43	182	189
					San Juan, P. R.-----	(29)	(31)	(134)	(---)

( ) Figures shown in parenthesis are from cities which have been reporting less than five years and hence are not included in Table 3.

**Botulism - Minnesota (Follow-up Report)**

In September 1960 (Volume 9, Number 38) the Minnesota Department of Health supplied preliminary information on two fatal cases of botulism. Death followed within two days after consumption of smoked fresh water fish marketed in vacuum packed plastic bags. In a follow-up letter, Dr. Karl R. Lundeberg, Commissioner of Health, Minneapolis, reports that the early impression, that the botulinus toxin responsible for the two deaths was either type A or B was erroneous. "Subsequent studies by Dr. C. E. Dolman, University of Vancouver, Dr. G. M. Dack, University of Chicago, and the Pure Food and Drugs Laboratory, Washington, demonstrated that this outbreak was due to botulinus toxin type E. *Cl. botulinum*, type E organisms were isolated from the smoked fish by Dr. Dolman. It is interesting to note that type E is reported to grow and elaborate toxin at considerably lower temperatures than the more common types, A and B. In these deaths, the question of refrigeration assumed special importance because it was claimed that refrigeration was continuously maintained up to the time of consumption of the fish even though the accident happened during a spell of unusually hot weather." These two cases are thought to represent the first report in the United States of botulism due to type E toxin ascribed to fresh water fish.

**INTERNATIONAL NOTES**

**Influenza** - Dr. Edward J. O'Rourke, Epidemiologic Consultant, Europe, U.S. Public Health Service, American Embassy, London, reports that influenza continues in Great Britain where cases are widespread in the Midland and Northwestern Regions and beginning to occur in London. Many isolations of the A<sub>2</sub> influenza virus strain have been made. England and Wales report 358 influenza deaths for the week ending January 21, 1961, which compares with 32 deaths for the corresponding week in 1960. Pneumonia and bronchitis deaths have remained above the 1960 levels for the past six weeks. Professor Patrick N. Meenan, University College, Dublin, has reported that influenza is widespread in Dublin and appears also, from preliminary information, to be occurring in all parts of that country. Viruses isolated from patients in the Dublin area are of the A<sub>2</sub> strain. There is no reported influenza on the European Continent.

The WHO Weekly Epidemiological Record, Number 4, January 27, 1961 mentions a small outbreak of virus B influenza which occurred in December 1960, in a class of a primary school in Tokyo, Japan. An associated press release dated January 27, Tokyo, indicates that influenza outbreaks in that city have resulted in widespread closing of schools.

**QUARANTINE MEASURES****Immunization Information for International Travel**

No Changes Reported

**SOURCE AND NATURE OF MORBIDITY DATA**

These provisional data are based on reports to the Public Health Service from the health departments of each State and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Total figures for the United States and the Pacific Division include data for the States of Alaska and Hawaii. Cases of anthrax, botulism, and rabies in man are not shown in table 2, but a footnote to table 1 shows the States reporting these diseases. When diseases of rare occurrence are reported by a State (cholera, dengue, plague, louse-borne relapsing fever, smallpox, louse-borne epidemic typhus, and yellow fever) this is noted below table 1.

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PUBLIC HEALTH SERVICE  
Communicable Disease Center  
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